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**From:** Clemmer, Jill (DPH)  
**Sent:** Wednesday, November 02, 2011 3:02 PM  
**To:** Nassif, Julianne (DPH); Servizio, Paul (DPH); Piro, Peter (DPH)  
**Subject:** RE: Fentanyl fix

As we all know, the “new & improved” standards responded no differently than the prior two batches... The additional high calibration standards did not change the curve fit or quant of the Hospira FC-QC (linear to 200ug/ml) either.

Next up: alternate QC material, and different lot of Hospira QC... Peter is ordering.

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**From:** Nassif, Julianne (DPH)  
**Sent:** Tuesday, November 01, 2011 3:17 PM  
**To:** Clemmer, Jill (DPH); Servizio, Paul (DPH); Piro, Peter (DPH)  
**Subject:** RE: Fentanyl fix

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**From:** Clemmer, Jill (DPH)  
**Sent:** Tuesday, November 01, 2011 3:16 PM  
**To:** Servizio, Paul (DPH); Piro, Peter (DPH)  
**Cc:** Nassif, Julianne (DPH)  
**Subject:** Fentanyl fix

After wracking my head and a few others' heads today, I am convinced that our fentanyl fix lies in the “fix” of the calibration standards. One or both of the following must be done:

- 1) pH the std as the QC is, at 4.5
- 2) dissolve the standard in a small amount of methanol prior to water pH'd at 4.5

Let's make new and improved standards tomorrow... ok?  
Jill